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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/862,801	05/22/2001	Vitaly Neyman	655/63958	1154

7590 03/23/2005

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EXAMINER

ZAND, KAMBIZ

ART UNIT	PAPER NUMBER
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2132

DATE MAILED: 03/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/862,801	NEYMAN ET AL.	
	Examiner	Art Unit	
	Kambiz Zand	2132	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 May 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 May 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>08/22/2001</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. **Claims 1-32** have been examined.

Information Disclosure Statement PTO-1449

2. The Information Disclosure Statement submitted by applicant on 08/22/2001 has been considered. Please see attached PTO-1449.

Claim Objections

3. **Claim 3** is objected to because of the following informalities: typo error.

Examiner suggests the following corrections:

Claim 3:

- Please insert "." at the end of the line 2. (claim should be finished with a period character).
- Replacement of "all the rights" (line 8) with " a number of rights" or " a plurality of rights".
- Replacement of "a" (line 9) with "the".

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 1-32** are rejected under 35 U.S.C. 103(a) as being unpatentable over Joyce (6,519,703 B1) in view of Applicant Admittance Prior Art (AAPA).

As per claims 1, 7, 13 and 19 Joyce (6,519,703 B1) teach a method, system, storage medium and a programmed computer system including computer executable code for selecting a detection method for analyzing computer code for malicious code (see abstract; fig.2 and associated text), comprising: providing a plurality of malicious code detection methods (see abstract; col.2, lines 16-29); determining a probability of accuracy of a result of the analysis (see abstract; col.2) , and repeating the analyzing and determining steps, if the probability of accuracy is below a predetermined level (see abstract; col.2, lines 42-65 where the assigned confidence rating corresponds to Applicant's predetermined level; col.2, lines 53-57 where if it is a poor confidence which corresponds to Applicant's below pre determined level); and outputting a result of the analysis if the probability of accuracy is at or above the predetermined level (see col.2, lines 47-51 where if it is a high confidence which corresponds to Applicant's at or above

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pre-determined level), also see col.2-6 and col.7, lines 1-5 for more detailed but do not disclose explicitly wherein at least some of the malicious code detection methods require different amounts of time to analyze for malicious code; selecting a fastest one of the malicious code detection methods, analyzing computer code for malicious code using the selected malicious code detection method; selecting a next fastest one of the malicious code detection methods. However AAPA disclose at least some of the malicious code detection methods require different amounts of time to analyze for malicious code; selecting a fastest one of the malicious code detection methods, analyzing computer code for malicious code using the selected malicious code detection method; selecting a next fastest one of the malicious code detection methods (see page 1 and 2 of the specification). It would have been obvious to one of ordinary skilled in the art at the time the invention was made to utilize AAPA's prior art disclosure in Joyce's Heuristic's packet filtering analysis in order to provide different methods based on Heuristic's logic based rules.

As per claims 2, 8, 14 and 20 Joyce (6,519,703 B1) teach the method, system, storage medium including computer executable code for selecting a detection method as recited in claims 1, 7, 13 and 19, wherein at least some of the malicious code detecting methods use heuristic logic to detect for malicious code (see abstract; col.2).

As per claims 3, 9, 15 and 21 Joyce (6,519,703 B1) teach the method, system, storage medium including computer executable code for selecting a detection method as recited

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in claims 1, 7, 13 and 19 as applied above but do not explicitly disclose, wherein the fastest one of the malicious code detecting methods is a least accurate one of the plurality of malicious code. However AAPA disclose wherein the fastest one of the malicious code detecting methods is a least accurate one of the plurality of malicious code (see page 2, last paragraph of the specification). It would have been obvious to one of ordinary skilled in the art at the time the invention was made to utilize AAPA's prior art disclosure in Joyce's Heuristic's packet filtering analysis in order to provide different methods based on Heuristic's logic based rules.

As per claims 4, 10, 16 and 22 Joyce (6,519,703 B1) teach the method, system, storage medium including computer executable code of selecting a detecting method as recited in the claims 1, 7, 13 and 19 as applied above but do not explicitly disclose, wherein the slowest one of the malicious code detecting methods is a most accurate one of the plurality of malicious code. However AAPA disclose wherein the slowest one of the malicious code detecting methods is a most accurate one of the plurality of malicious code (see page 2, last paragraph of the specification). It would have been obvious to one of ordinary skilled in the art at the time the invention was made to utilize AAPA's prior art disclosure in Joyce's Heuristic's packet filtering analysis in order to provide different methods based on Heuristic's logic based rules.

As per claims 5, 11, 17 and 23 Joyce (6,519,703 B1) teach the method, system of selecting a detecting method as recited in the claims 1, 7, 13 and 19, further comprising

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prompting a user to input a value to be used as the predetermined level (see abstract; col.2, lines 42-65 where the assigned confidence rating corresponds to Applicant's predetermined level) .

As per claims 6, 12, 18 and 24 Joyce (6,519,703 B1) teach the method, system, storage medium including computer executable code of selecting a detecting method as recited in the claims 5, 11, 17 and 23, further comprising receiving the value input by the user and using the value as the predetermined level (see abstract; col.2, lines 42-65 where the assigned confidence rating corresponds to Applicant's predetermined level; and col.5, lines 38-45; col.6, lines 30-65 where the algorithm used are base on the input data that corresponds to Applicant's input value) .

As per claims 25-28 Joyce (6,519,703 B1) teach a method, system, storage medium and a programmed computer system including computer executable code for selecting a detection method for analyzing computer code for malicious code (see abstract; fig.2 and associated text), comprising: providing a plurality of malicious code detection methods (see abstract; col.2, lines 16-29); determining a degree of accuracy of a result of the analysis (see abstract; col.2) , and repeating the analyzing and determining steps, if the degree of accuracy is below a predetermined level (see abstract; col.2, lines 42-65 where the assigned confidence rating corresponds to Applicant's predetermined level; col.2, lines 53-57 where if it is a poor confidence which corresponds to Applicant's below pre determined level); and outputting a result of the analysis if the probability of

accuracy is at or above the predetermined level (see col.2, lines 47-51 where if it is a high confidence which corresponds to Applicant's at or above pre-determined level), also see col.2-6 and col.7, lines 1-5 for more detailed but do not disclose explicitly wherein at least some of the malicious code detection methods require different amounts of time to analyze for malicious code; selecting a fastest one of the malicious code detection methods, analyzing computer code for malicious code using the selected malicious code detection method; selecting a next fastest one of the malicious code detection methods. However AAPA disclose at least some of the malicious code detection methods require different amounts of time to analyze for malicious code; selecting a fastest one of the malicious code detection methods, analyzing computer code for malicious code using the selected malicious code detection method; selecting a next fastest one of the malicious code detection methods (see page 1 and 2 of the specification). It would have been obvious to one of ordinary skilled in the art at the time the invention was made to utilize AAPA's prior art disclosure in Joyce's Heuristic's packet filtering analysis in order to provide different methods based on Heuristic's logic based rules.

6. **As per claims 29-32** Joyce (6,519,703 B1) teach a method, system, storage medium and a programmed computer system including computer executable code for selecting a detection method for analyzing computer code for malicious code (see abstract; fig.2 and associated text), comprising: providing a plurality of malicious code detection methods (see abstract; col.2, lines 16-29); determining a degree of accuracy

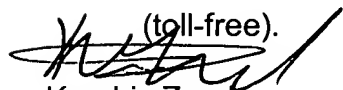
of a result of the analysis (see abstract; col.2) , and repeating the analyzing and determining steps, if the degree of accuracy is below a predetermined level (see abstract; col.2, lines 42-65 where the assigned confidence rating corresponds to Applicant's predetermined level; col.2, lines 53-57 where if it is a poor confidence which corresponds to Applicant's below pre determined level); and outputting a result of the analysis if the probability of accuracy is at or above the predetermined level (see col.2, lines 47-51 where if it is a high confidence which corresponds to Applicant's at or above pre-determined level), also see col.2-6 and col.7, lines 1-5 for more detailed but do not disclose explicitly wherein at least some of the malicious code detection methods require different amounts of time to analyze for malicious code; selecting a fastest one of the malicious code detection methods, analyzing computer code for malicious code using the selected malicious code detection method; selecting a next fastest one of the malicious code detection methods. However AAPA disclose at least some of the malicious code detection methods require different amounts of time to analyze for malicious code; selecting a fastest one of the malicious code detection methods, analyzing computer code for malicious code using the selected malicious code detection method; selecting a next fastest one of the malicious code detection methods (see page 1 and 2 of the specification). It would have been obvious to one of ordinary skilled in the art at the time the invention was made to utilize AAPA's prior art disclosure in Joyce's Heuristic's packet filtering analysis in order to provide different methods based on Heuristic's logic based rules.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Please see prior arts listed on enclosed PTO-892

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kambiz Zand whose telephone number is (571) 272-3811. The examiner can normally be reached on Monday-Thursday (8:00-5:00). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on (571) 272-3799. The fax phone numbers for the organization where this application or proceeding is assigned as (703) 872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197

(toll-free).

Kambiz Zand

03/17/05